

## INTERNATIONAL SEARCH REPORT

 Int. Application No  
 PCT/IB2004/004022

 A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 C12Q1/70

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

 Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, Sequence Search, WPI Data, PAJ, BIOSIS, EMBASE

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/093797 A (ABBOTT LAB)	1, 3
Y	13 November 2003 (2003-11-13) page 10, paragraph 1 - paragraph 3  page 15, paragraph 3 - page 19, paragraph 4 page 20, paragraph 3 page 26, paragraph 3 - paragraph 4 claims 1,4,7-9,12-14; example 1; tables 1,2  ----- -/-	11, 12, 16, 20, 21, 25, 26

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- \*G\* document member of the same patent family

Date of the actual completion of the international search

25 February 2005

Date of mailing of the international search report

04/03/2005

Name and mailing address of the ISA

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	WO 93/13120 A (CHIRON CORP) 8 July 1993 (1993-07-08) SEQ ID NO:13 comprises SEQ ID NO:2; SEQ ID NO:14 comprises reverse compl. of SEQ ID NO:3 except last 2 N (TG); SEQ ID NO:18 comprises 17 of 22 N of SEQ ID NOS:8 & 9 (10, 11: 1 N mutated). page 3, line 28 - page 5, line 34	1-3,9, 10,13-15 16-26
A	claims 1,5	11,12
X Y	US 2003/157478 A1 (SHARMA VIJAY ET AL) 21 August 2003 (2003-08-21) page 2, paragraph 27 - paragraph 37	1,5,8-10 11,12, 17-26
A	page 3, paragraph 52 - paragraph 56 claims 1,2,4,13-15,24,28	13-15
X	DATABASE EMBL 'Online! EBI; 22 February 2001 (2001-02-22), MASAKAZU M, SHUICHI K, KAZUMASA H: "Primer for detecting hepatitis B virus and method for detecting hepatitis B virus therewith" XP002282772 Database accession no. E28674 abstract & PATENT ABSTRACTS OF JAPAN vol. 1996, no. 04, 30 April 1996 (1996-04-30) & JP 07 327686 A (IMMUNO JAPAN:KK), 19 December 1995 (1995-12-19) abstract & JP 07 327686 A (IMMUNO JAPAN:KK) 19 December 1995 (1995-12-19)	1,5
X	WO 95/17414 A (APOLLON INC) 29 June 1995 (1995-06-29) SEQ ID NO: 45, 46, 47, 48 page 53; claim 2	1,4-7
X	US 5 877 162 A (GEORGE SHAJI T ET AL) 2 March 1999 (1999-03-02) SEQ ID NO: 13 column 29, line 15 - line 30	1,3
X	DATABASE GENESEQ 'Online! EBI; PCR primer Hepatitis B virus X-region 23 May 1996 (1996-05-23), UCHIDA T, SHIKATA T: XP002282773 Database accession no. AAT08233 abstract -/--	1,2

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International Application No  
PCT/IB2004/004022

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>&amp; DATABASE EPODOC EUROPEAN PATENT OFFICE, THE HAGUE, NL; 19 October 1995 (1995-10-19), EPODOC abstract of Japanese WO patent application WO 95/27788 abstract &amp; WO 95/27788 A (DAINABOT CO LTD ; SHIKATA TOSHIO (JP); UCHIDA TOSHIKAZU (JP)) 19 October 1995 (1995-10-19) abstract</p> <p>-----</p> <p>DATABASE EMBL 'Online! EBI; 24 January 1995 (1995-01-24), XP002282774 Database accession no. I00797 abstract</p> <p>-----</p>	1,2

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# INTERNATIONAL SEARCH REPORT

national application No.

PCT/IB2004/004022

## Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:

a. type of material

- ☒ a sequence listing  
☐ table(s) related to the sequence listing

b. format of material

- ☒ in written format  
☒ in computer readable form

c. time of filing/furnishing

- ☒ contained in the international application as filed  
☐ filed together with the international application in computer readable form  
☐ furnished subsequently to this Authority for the purpose of search

2. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

3. Additional comments:

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Information on patent family members

In International Application No  
PCT/IB2004/004022

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 03093797	A	13-11-2003	CA 2484507 A1 WO 03093797 A2	13-11-2003 13-11-2003
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